

O I P E JC108
OCT 28 2002
U. S. PATENT & TRADEMARK OFFICE

Title: ALLOY FOR BATTERY GRIDS
Inventor(s): Bauer et al.
Application No.: 09/696,109

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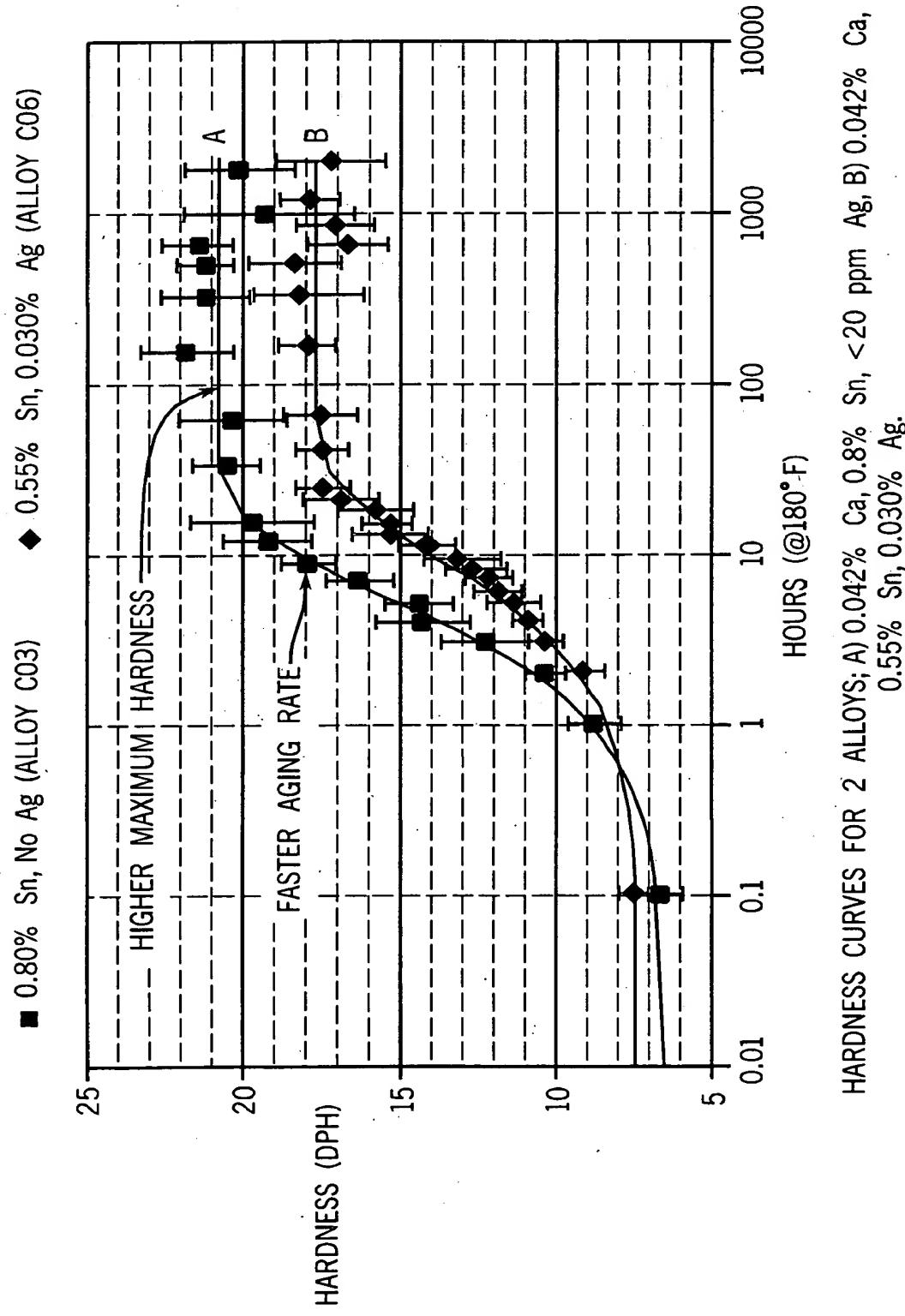


FIG. 1

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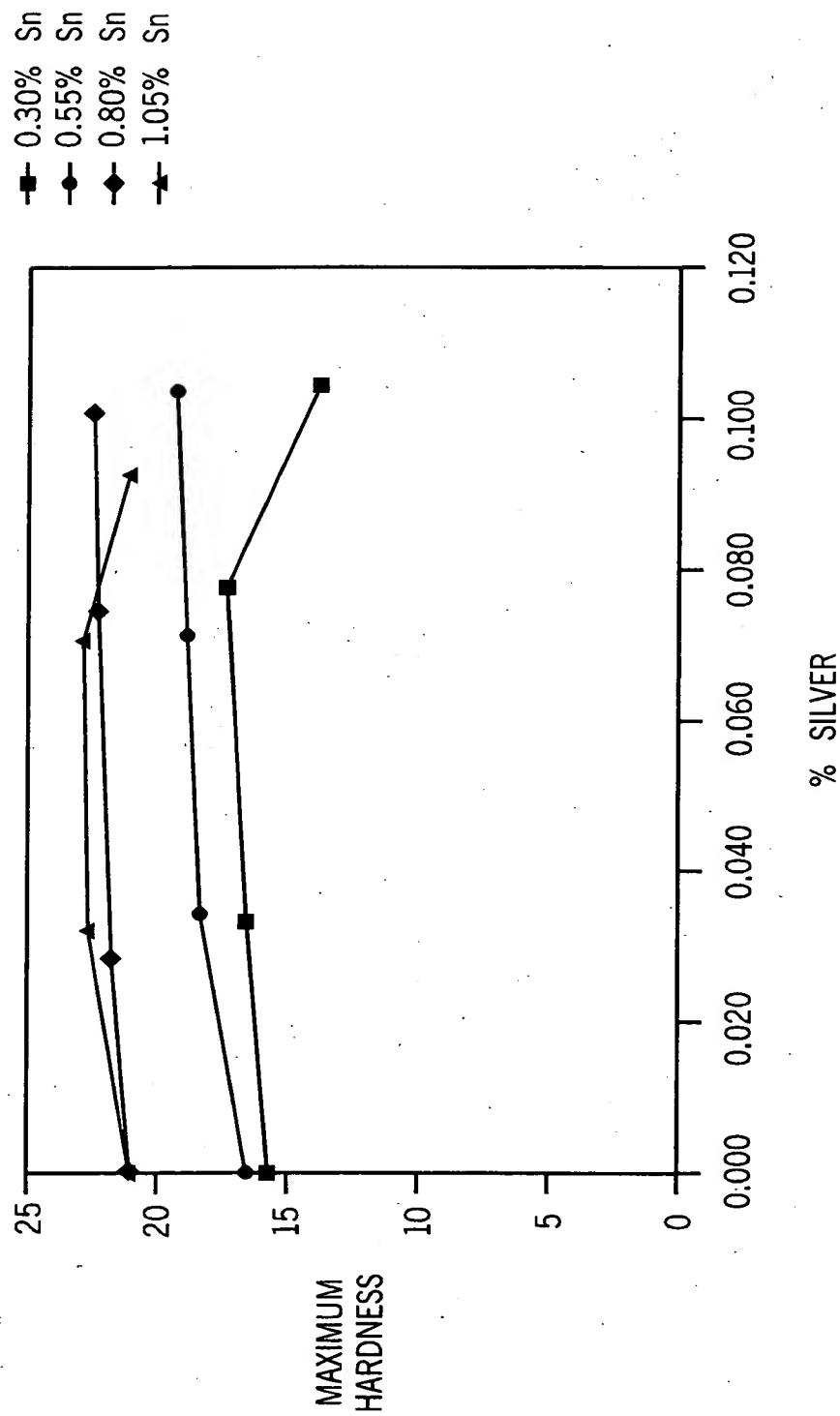


FIG. 2



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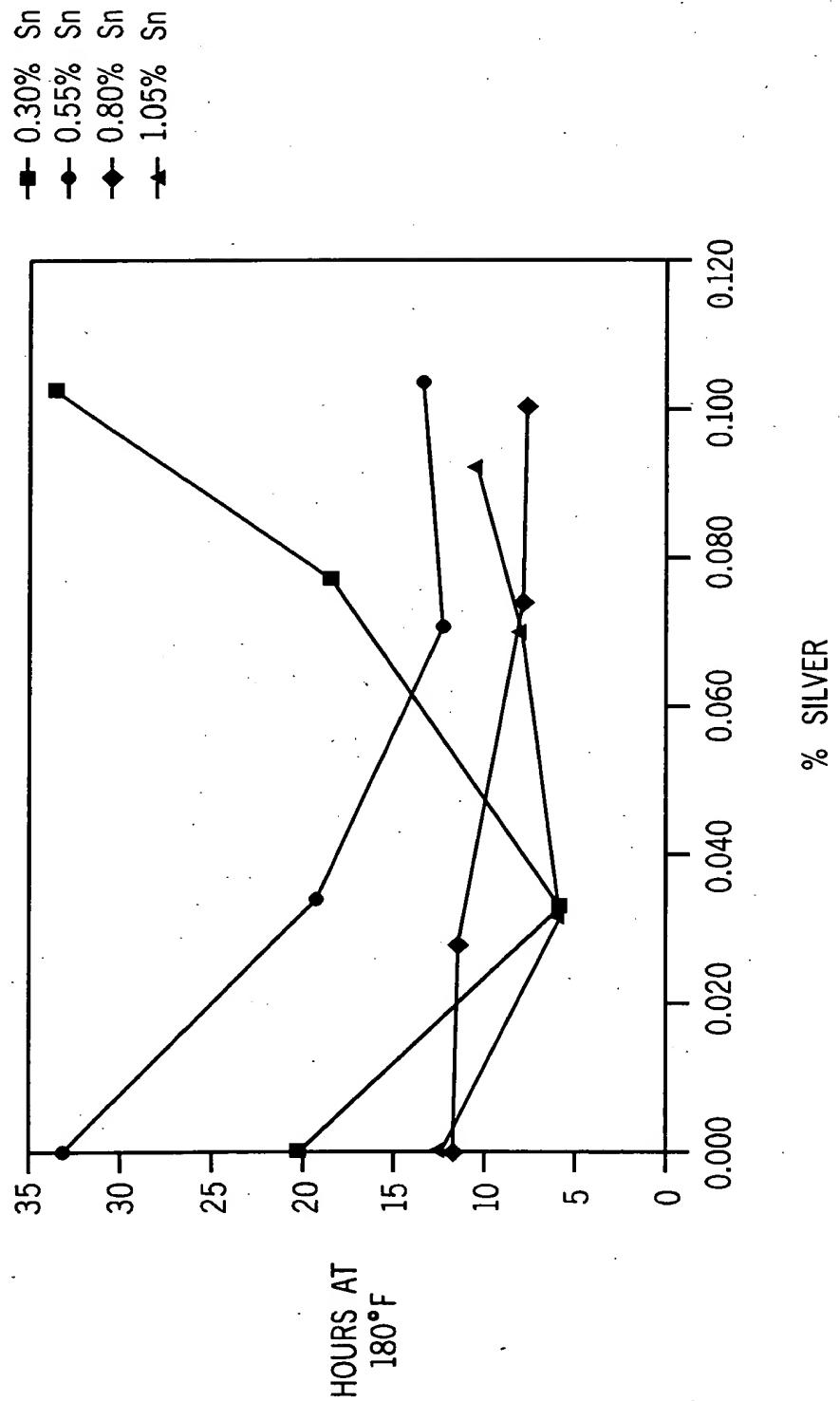
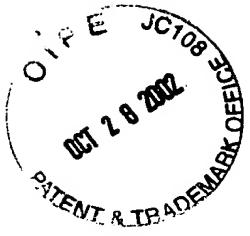


FIG. 3



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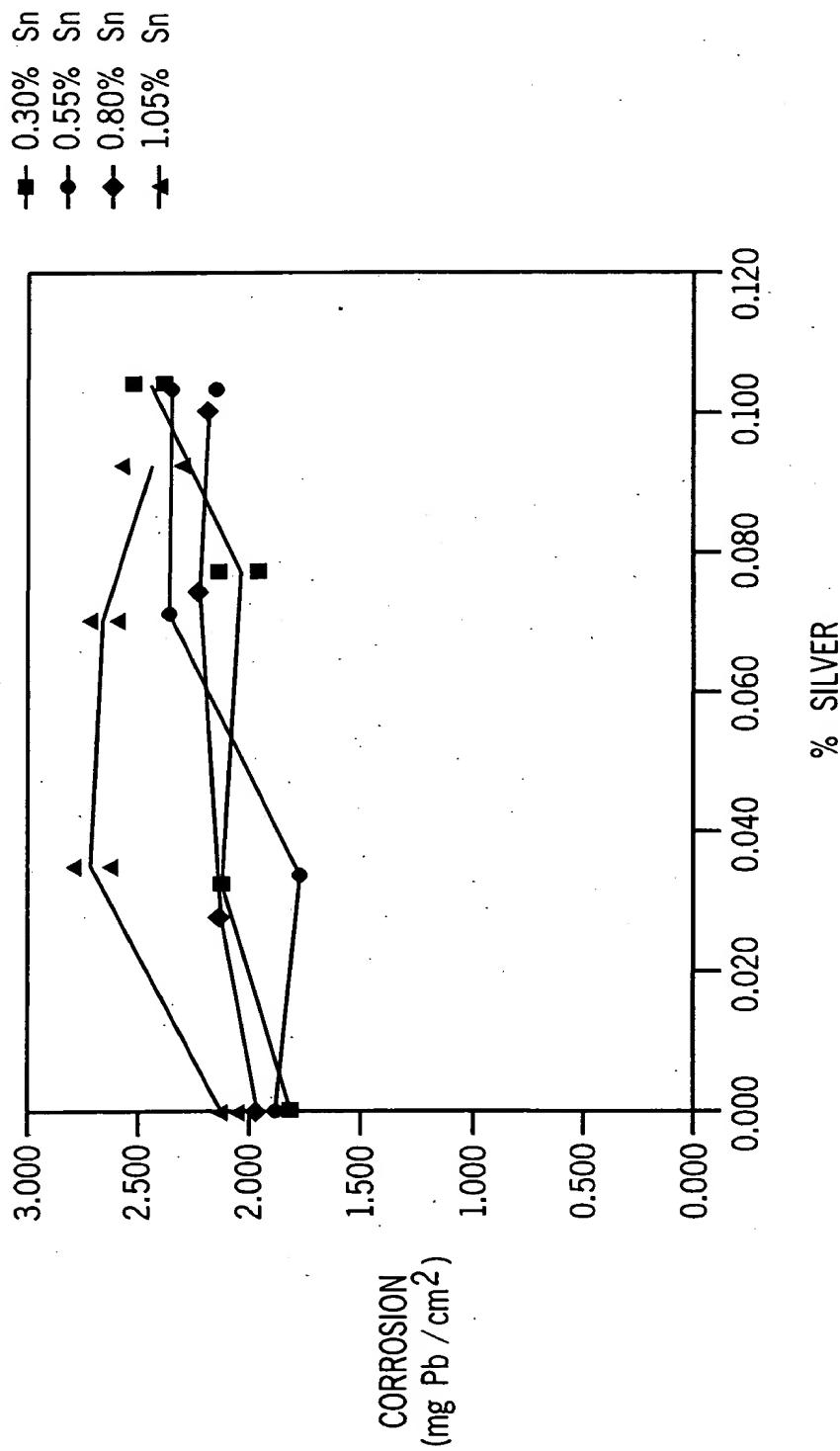
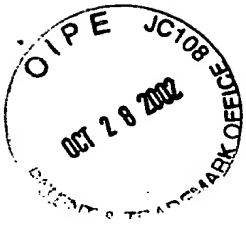


FIG. 4



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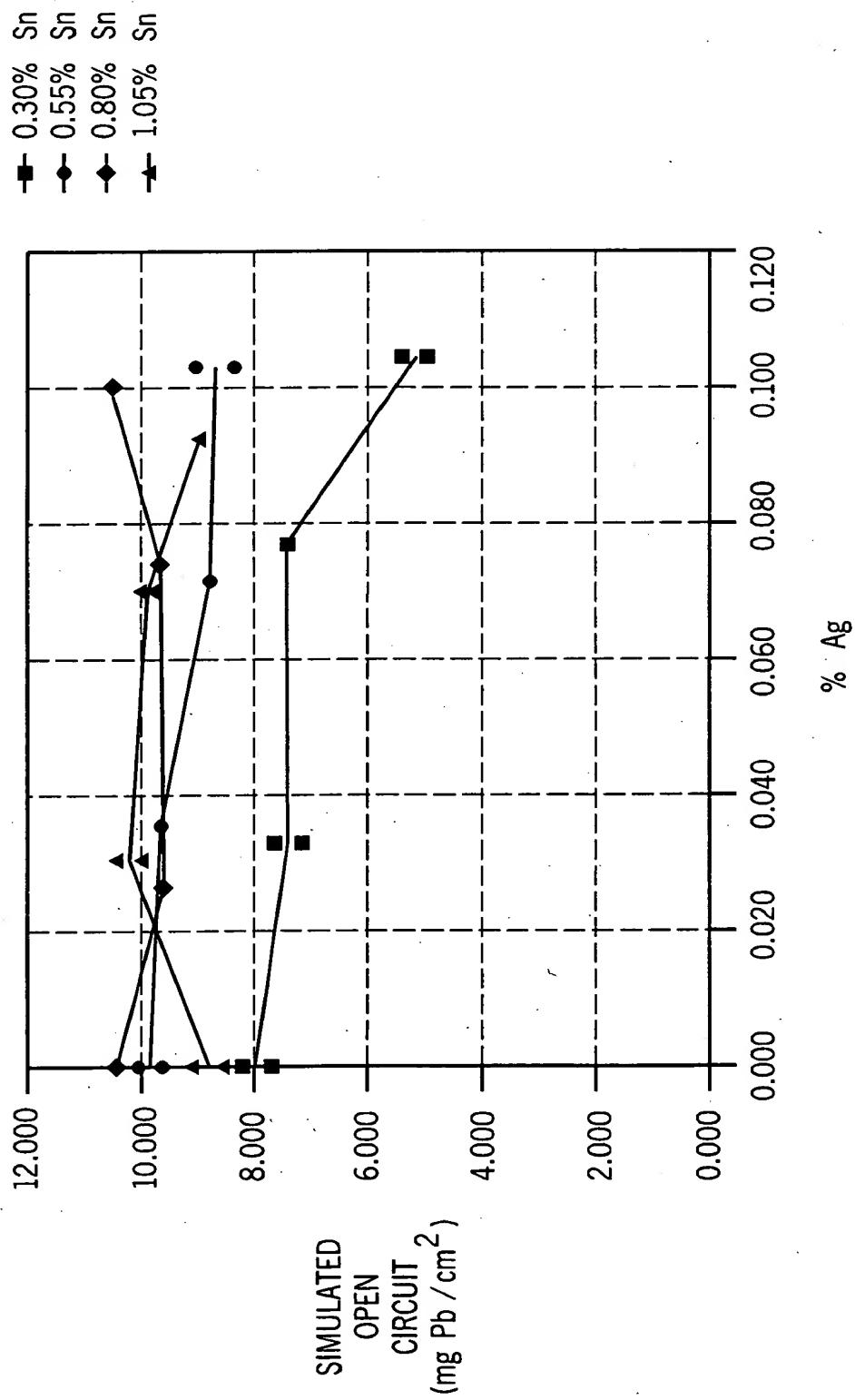


FIG. 5



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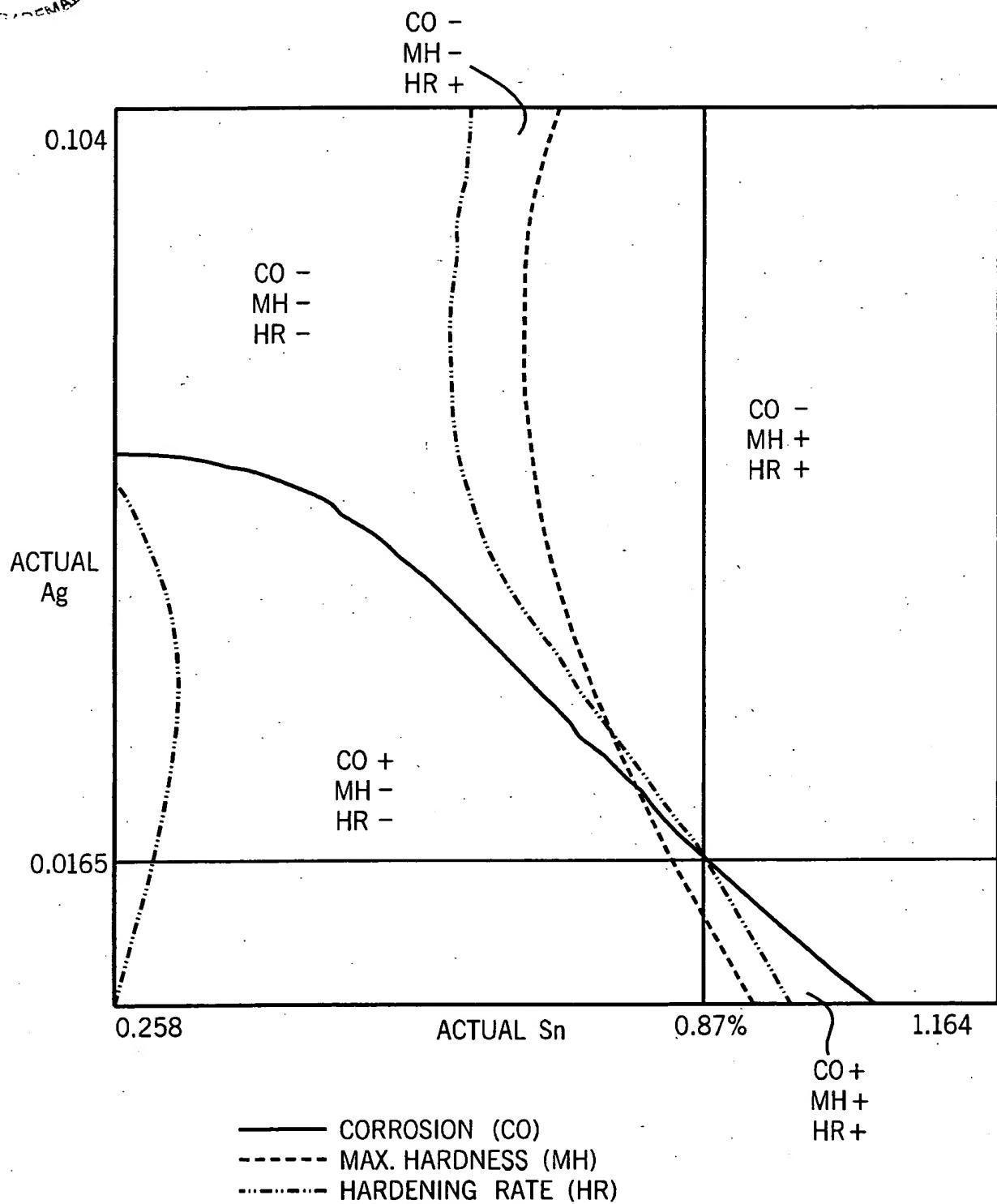


FIG. 6

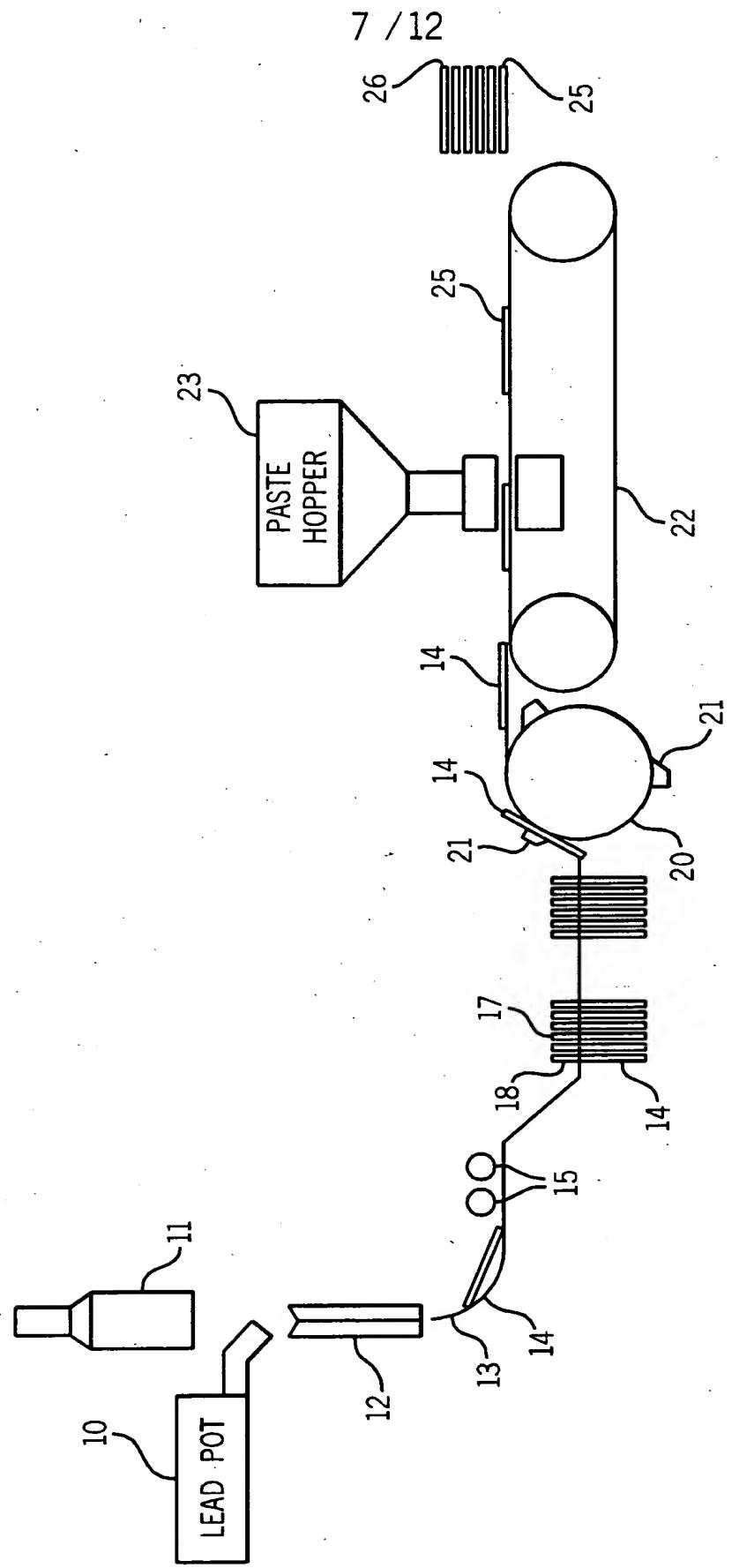


FIG. 7

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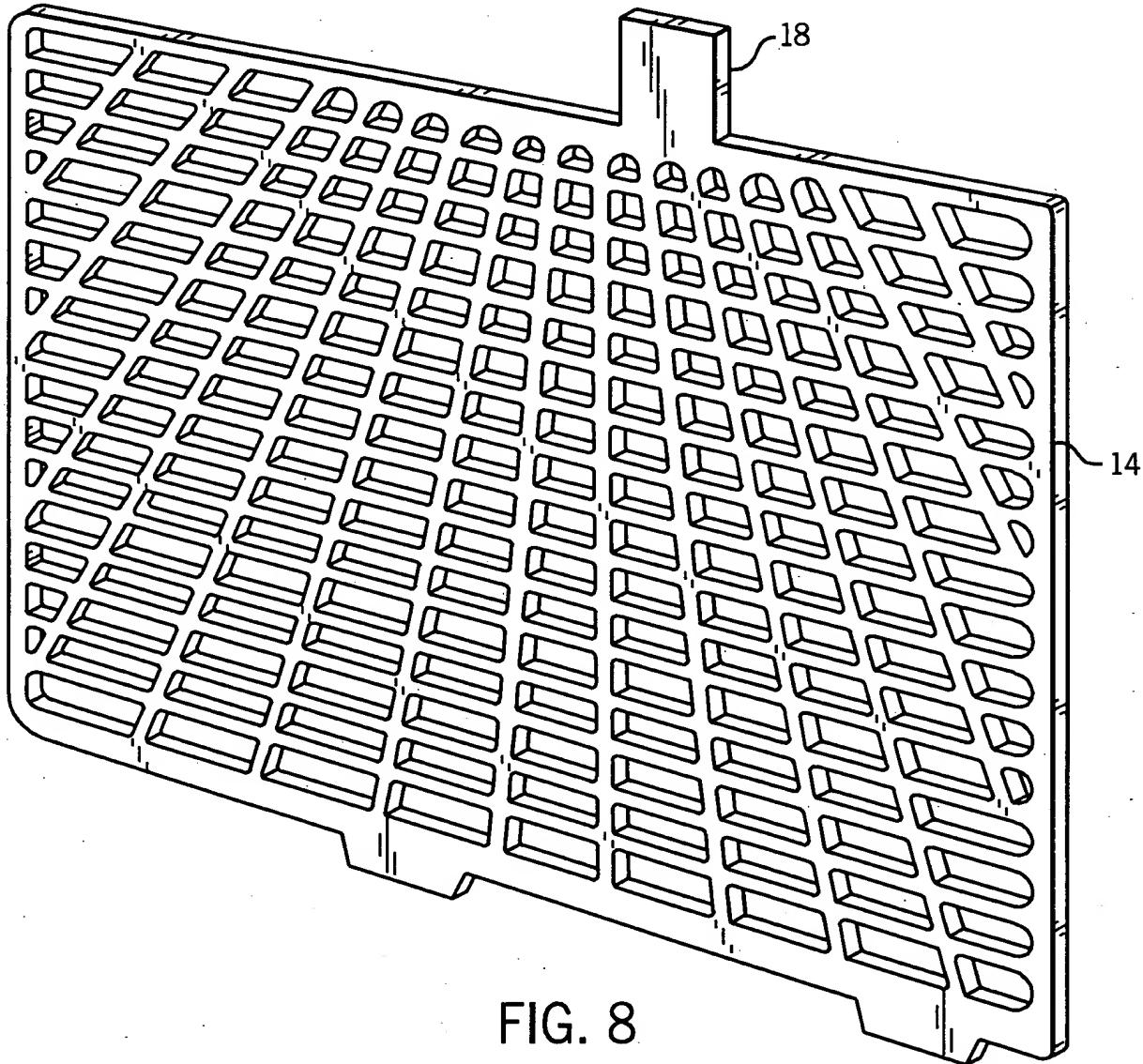


FIG. 8



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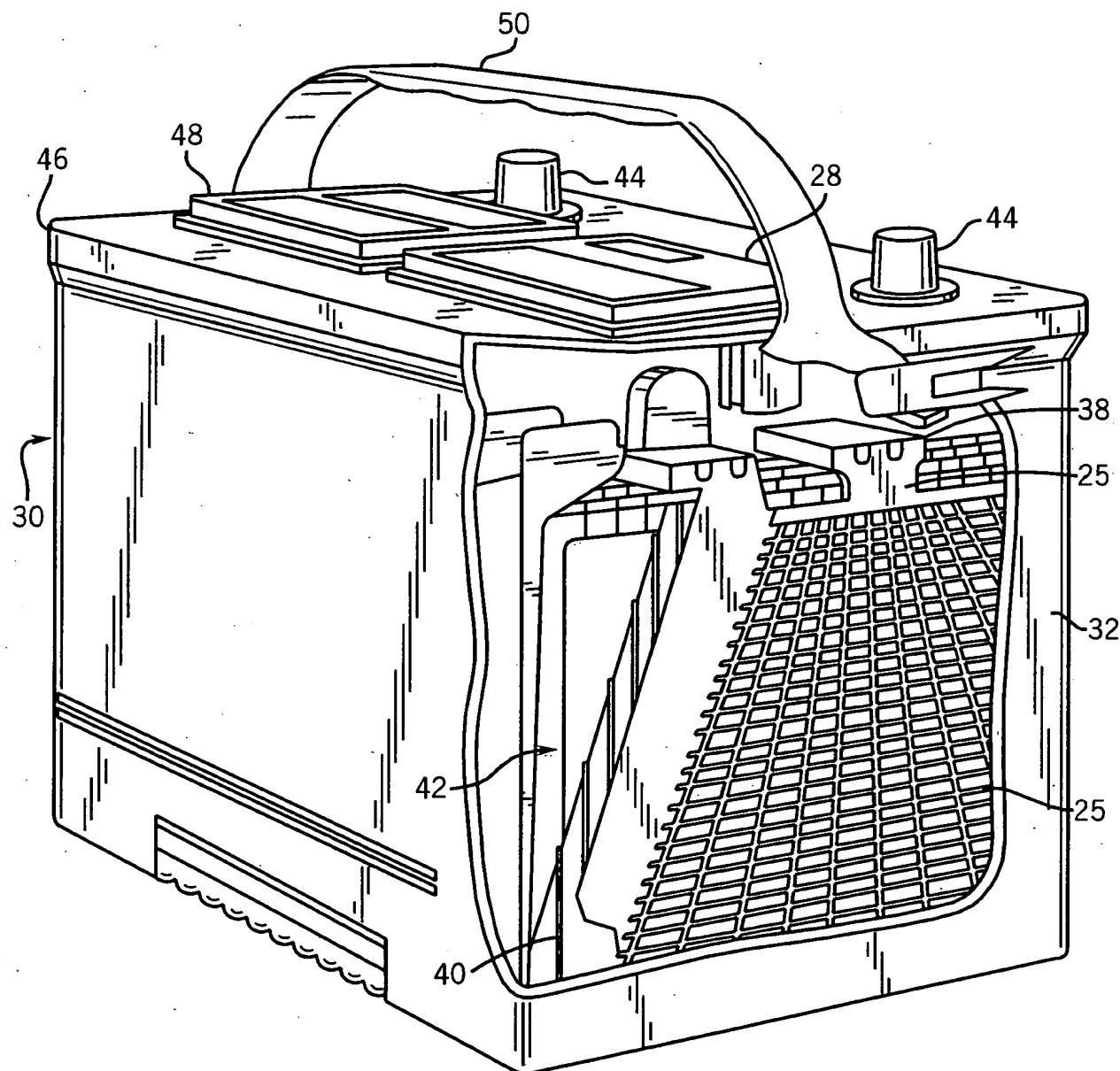


FIG. 9



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GRID CRACKING STUDY - 0.8% TIN

ALL ALLOYS CONTAINED FIXED 0.8% Sn

Ag-CONTENT (%)	GRIDS WITH CRACKS (%)
0.012	6.0
0.013	12.0
0.0144	18.0
0.0174	32.0
0.0197	38.0
0.022	44.0
0.0295	43.4

GRID CRACKS VS. SILVER CONTENT

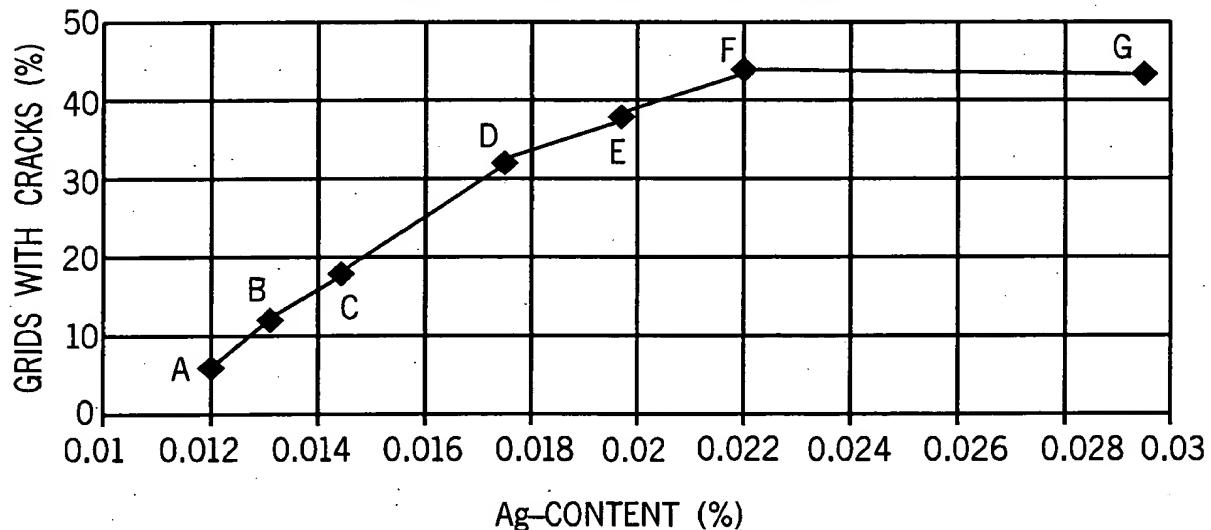


FIG. 10



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GRID CRACKING STUDY - 1.1% TIN

ALL ALLOYS CONTAINED FIXED 1.1% Sn

Ag-CONTENT (%)	GRIDS WITH CRACKS (%)
0.0072	5
0.0102	2
0.0125	9
0.0152	10
0.0174	19
0.0194	21
0.0228	29

GRID CRACKS VS. SILVER CONTENT

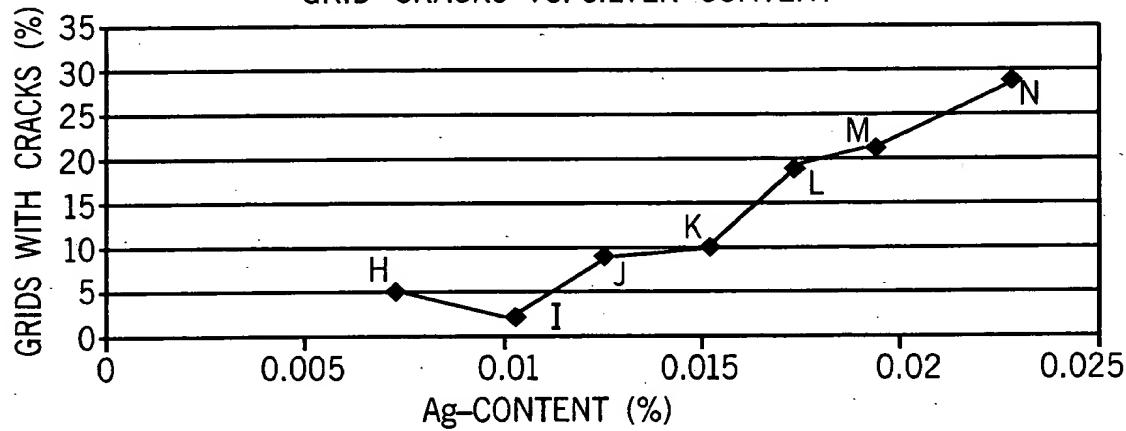


FIG. 11



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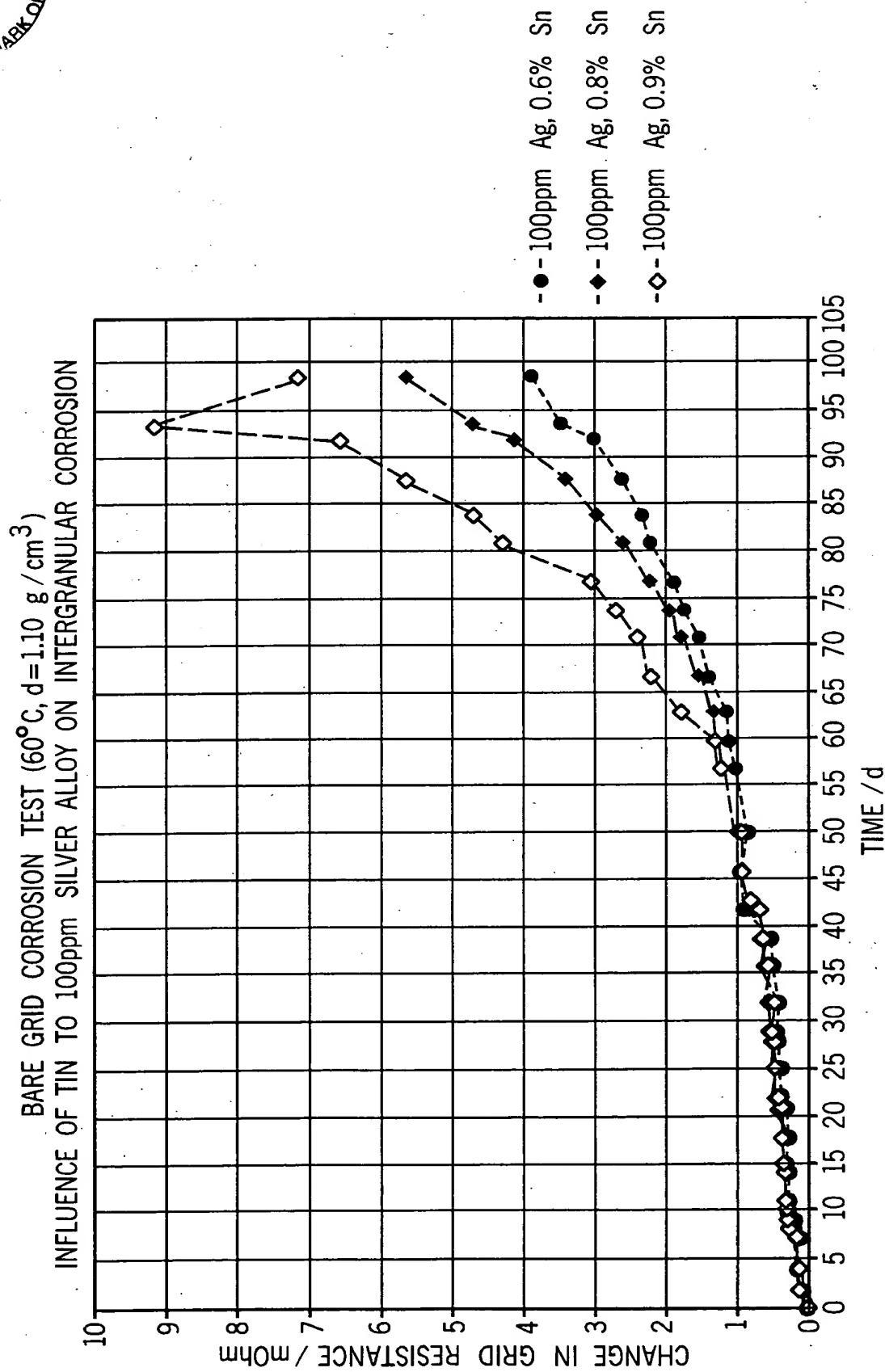


FIG. 12